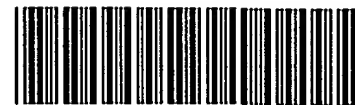


## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 09/208,629I  
Source: IFW/b  
Date Processed by STIC: 4/18/06

# ***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 04/18/2006

PATENT APPLICATION: US/09/208,629I

TIME: 15:02:02

Input Set : A:\22000-20603.10 sequence listing.txt

Output Set: N:\CRF4\04182006\I208629I.raw

4 <110> APPLICANT: COUGHLIN, Shaun R.  
 5 ISHIHARA, Hiroaki  
 6 CONNOLLY, Andrew  
 8 <120> TITLE OF INVENTION: PROTEASE-ACTIVATED RECEPTOR 3 AND USES  
 9 THEREOF  
 11 <130> FILE REFERENCE: 220002060310  
 13 <140> CURRENT APPLICATION NUMBER: US 09/208,629I  
 14 <141> CURRENT FILING DATE: 1998-12-08  
 16 <150> PRIOR APPLICATION NUMBER: US 08/742,440  
 17 <151> PRIOR FILING DATE: 1996-10-30  
 19 <160> NUMBER OF SEQ ID NOS: 31  
 21 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 23 <210> SEQ ID NO: 1  
 24 <211> LENGTH: 1224  
 25 <212> TYPE: DNA  
 26 <213> ORGANISM: Mus Musculus  
 28 <400> SEQUENCE: 1  
 29 tgactttgta tacttaacaa catcctgtag ccgggtctca ggacatcaag atgaaaatcc 60  
 30 ttatcttggg tgcagctggg ctgctgtttc tgccagtcac tgtttgcaa agtggcataa 120  
 31 atgtttcaga caactcagca aagccaacct taactattaa gagttttaat ggggggtcccc 180  
 32 aaaatacctt tgaagaattc ccactttctg acatagaggg ctggacagga gccaccacaa 240  
 33 ctataaaaagc ggagtgtccc gaggacagta tttcaactct ccacgtgaat aatgctacca 300  
 34 taggatacct gagaagttcc ttaagtaccc aagtataacc tgccatctat atcctgctgt 360  
 35 ttgtgggttg tgtaccatcc aacatcgtga ccctgtggaa actctcctta aggaccaa 420  
 36 ccactagctc ggtcatcttt cacaccaacc tggccatcgc agatctcctt ttctgtgtca 480  
 37 cactgccatt taagatcgcc taccatctca atggcaacaa ctgggtattt ggcgaggtca 540  
 38 tgtgccggat caccacggtc gttttctacg gcaacatgta ctgcgctatc ctgacctca 600  
 39 cttgcatggg catcaaccgc tacctggcca cggtcaccc ttccacatac cagaagctgc 660  
 40 ccaaacgcag cttctccttg ctcatgtgtg gcatagtgtg ggtcatggtt ttcttataca 720  
 41 tgctgccctt tgtcatcctg aagcaggagt accacctcgt ccactcagag atcaccacct 780  
 42 gccacgatgt cgtcgacgcg tgcgagtccc catcatcctt ccgattctac tacttcgtct 840  
 43 ccttagcatt ctttgggttc ctcatccggt ttgtgatcat catcttctgt tacacgactc 900  
 44 tcatccacaa acttaaataa aaggatcgga tatggctggg ctacatcaag gccgtcctcc 960  
 45 tcatccttgt gattttcaca atttgctttg cccccacaa catcatactc gtaatccacc 1020  
 46 atgccaaacta ctactaccac aataccgaca gcttgctactt tatgtatctt attgctctgt 1080  
 47 gcctggggag cctgaatagc tgcctagatc cattccttta ctttgtcatg tcgaaagttg 1140  
 48 tagatcagct taatccttag tcggcaatgg caagaccact ttagagacca aggagagata 1200  
 49 tctgggaaga catacatgct tggc 1224  
 51 <210> SEQ ID NO: 2  
 52 <211> LENGTH: 1124  
 53 <212> TYPE: DNA  
 54 <213> ORGANISM: Mus Musculus  
 56 <220> FEATURE:

## RAW SEQUENCE LISTING

DATE: 04/18/2006

PATENT APPLICATION: US/09/208,629I

TIME: 15:02:02

Input Set : A:\22000-20603.10 sequence listing.txt

Output Set: N:\CRF4\04182006\I208629I.raw

```

57 <221> NAME/KEY: misc_feature
58 <222> LOCATION: 117, 118, 119, 120, 121, 122, 123, 350, 351, 442,
59 443, 444, 595, 596, 597, 663, 785, 859, 860, 861, 862, 863,
60 864
61 <223> OTHER INFORMATION: n = A, T, C, or G
63 <400> SEQUENCE: 2
W--> 64 ccatatgcta atatttcctt tcaattacag gcataaatgt ttcagacaac tcagcaaagc 60
65 caaccttaac tattaagagt tttaatgggg gtccccaata tacctttgaa gaattcnnnn 120
66 nmntacaact ctccatgtga ataatgctac catgggatac ctgagaagtt ccttaagtac 180
67 caaagtgata cctgccatct acatcctggt gtttgtgatt ggtgtaccag cgaacatcgt 240
68 gaccctgtgg aaactctcct caaggaccaa atccatctgt ctggtcatct ttcacaccaa 300
69 cctggccatc gcggtatctcc ttttctgtgt cacgctgccg ttttaagatcn ncctaccatc 360
70 tcaatggcaa caactgggta tttggcgagg tcatgtgccg gatcaccacg gtcgttttct 420
71 acggcaacat gtactgcgct annntcctga tcttcacctg catgggcatc aaccgctacc 480
72 tggccacggc tcaccctttc acataccaga agctgcccaa acgcagcttc tccatgctca 540
73 tgtgtggcat ggtgtgggtc atggttttct tatacatgct gccctttgtc atccnnnaag 600
74 caggagtacc acctcgtcca ctccgagatc accacctgcc acgatgtcgt cgacgcgtgc 660
75 gantcccatc catccttccg attctactac ttcgtctcct tagcattctt tgggttcttc 720
76 atcccgtttg tgatcatcat cttctgttac acgactctca tccacaaact taaatcaaaa 780
77 gatcngatat ggctgggcta catcaaggcc gtccctctca tcttctgtgaa tttcaccatc 840
78 tgcttcccc ccaccaagnn nnnngatata tgggaagacg tacatgcttg gctgacttgt 900
79 gcatggcacc atcagctcaa tttttaattt ttttaattta atttaattta attttatgtt 960
80 tttgagacag agcctcactg tgtagtctg gctggcctgg ctggttctct atttagacca 1020
81 ggtttagcct gaactcacag agatctgcct gcttctgcct cccaagtgt gggttcaacc 1080
82 aggtctggca agcgtccat ttttcagctc ctctgcaaca gtgc 1124
84 <210> SEQ ID NO: 3
85 <211> LENGTH: 369
86 <212> TYPE: PRT
87 <213> ORGANISM: Mus Musculus
89 <400> SEQUENCE: 3
90 Met Lys Ile Leu Ile Leu Val Ala Ala Gly Leu Leu Phe Leu Pro Val
91 1 5 10 15
92 Thr Val Cys Gln Ser Gly Ile Asn Val Ser Asp Asn Ser Ala Lys Pro
93 20 25 30
94 Thr Leu Thr Ile Lys Ser Phe Asn Gly Gly Pro Gln Asn Thr Phe Glu
95 35 40 45
96 Glu Phe Pro Leu Ser Asp Ile Glu Gly Trp Thr Gly Ala Thr Thr Thr
97 50 55 60
98 Ile Lys Ala Glu Cys Pro Glu Asp Ser Ile Ser Thr Leu His Val Asn
99 65 70 75 80
100 Asn Ala Thr Ile Gly Tyr Leu Arg Ser Ser Leu Ser Thr Gln Val Ile
101 85 90 95
102 Pro Ala Ile Tyr Ile Leu Leu Phe Val Val Gly Val Pro Ser Asn Ile
103 100 105 110
104 Val Thr Leu Trp Lys Leu Ser Leu Arg Thr Lys Ser Ile Ser Leu Val
105 115 120 125
106 Ile Phe His Thr Asn Leu Ala Ile Ala Asp Leu Leu Phe Cys Val Thr
107 130 135 140
108 Leu Pro Phe Lys Ile Ala Tyr His Leu Asn Gly Asn Asn Trp Val Phe

```

## RAW SEQUENCE LISTING

DATE: 04/18/2006

PATENT APPLICATION: US/09/208,629I

TIME: 15:02:02

Input Set : A:\22000-20603.10 sequence listing.txt

Output Set: N:\CRF4\04182006\I208629I.raw

```

109 145          150          155          160
110 Gly Glu Val Met Cys Arg Ile Thr Thr Val Val Phe Tyr Gly Asn Met
111          165          170          175
112 Tyr Cys Ala Ile Leu Ile Leu Thr Cys Met Gly Ile Asn Arg Tyr Leu
113          180          185          190
114 Ala Thr Ala His Pro Phe Thr Tyr Gln Lys Leu Pro Lys Arg Ser Phe
115          195          200          205
116 Ser Leu Leu Met Cys Gly Ile Val Trp Val Met Val Phe Leu Tyr Met
117          210          215          220
118 Leu Pro Phe Val Ile Leu Lys Gln Glu Tyr His Leu Val His Ser Glu
119 225          230          235          240
120 Ile Thr Thr Cys His Asp Val Val Asp Ala Cys Glu Ser Pro Ser Ser
121          245          250          255
122 Phe Arg Phe Tyr Phe Val Ser Leu Ala Phe Phe Gly Phe Leu Ile
123          260          265          270
124 Pro Phe Val Ile Ile Ile Phe Cys Tyr Thr Thr Leu Ile His Lys Leu
125          275          280          285
126 Lys Ser Lys Asp Arg Ile Trp Leu Gly Tyr Ile Lys Ala Val Leu Leu
127          290          295          300
128 Ile Leu Val Ile Phe Thr Ile Cys Phe Ala Pro Thr Asn Ile Ile Leu
129 305          310          315          320
130 Val Ile His His Ala Asn Tyr Tyr Tyr His Asn Thr Asp Ser Leu Tyr
131          325          330          335
132 Phe Met Tyr Leu Ile Ala Leu Cys Leu Gly Ser Leu Asn Ser Cys Leu
133          340          345          350
134 Asp Pro Phe Leu Tyr Phe Val Met Ser Lys Val Val Asp Gln Leu Asn
135          355          360          365
136 Pro

```

140 &lt;210&gt; SEQ ID NO: 4

141 &lt;211&gt; LENGTH: 1224

142 &lt;212&gt; TYPE: DNA

143 &lt;213&gt; ORGANISM: Homo Sapiens

145 &lt;400&gt; SEQUENCE: 4

```

146 tgctccatga ttttacagat ttcataacgt ttaagagacg ggactcaggt catcaaaatg 60
147 aaagccctca tctttgcagc tgctggcctc ctgcttctgt tgcccacttt ttgtcagagt 120
148 ggcatggaaa atgatacaaa caacttggca aagccaacct taccatttaa gacctttcgt 180
149 ggagctcccc caaattcttt tgaagagttc cccttttctg ccttggaagg ctggacagga 240
150 gccacgatta ctgtaaaaaa taagtgcctt gaagaaagtg cttcacatct ccatgtgaaa 300
151 aatgctacca tgggggtacct gaccagctcc ttaagtacta aactgatacc tgccatctac 360
152 ctcttggtgt ttgtagttgg tgtcccggcc aatgctgtga ccctgtggat gcttttcttc 420
153 aggaccagat ccatctgtac cactgtattc tacaccaacc tggccattgc agattttctt 480
154 ttttgtgtta cattgccctt taagatagct tatcatctca atgggaacaa ctgggtattt 540
155 ggagaggtcc tgtgccgggc caccacagtc atcttctatg gcaacatgta ctgctccatt 600
156 ctgctccttg cctgcatcag catcaaccgc tacctggcca tcgtccatcc ttacacctac 660
157 cggggcctgc ccaagcacac ctatgccttg gtaacatgtg gactggtgtg ggcaacagtt 720
158 ttcttatata tgctgccatt ttccatactg aagcaggaat attatcttgt tcagccagac 780
159 atcaccacct gccatgatgt tcacaacact tgcgagtctt catctccctt ccaactctat 840
160 tacttcatct ccttggcatt ctttggattc ttaattccat ttgtgcttat catctactgc 900
161 tatgcagcca tcatccggac acttaatgca tacgatcata gatggttgtg gtatgttaag 960

```

## RAW SEQUENCE LISTING

DATE: 04/18/2006

PATENT APPLICATION: US/09/208,629I

TIME: 15:02:02

Input Set : A:\22000-20603.10 sequence listing.txt

Output Set: N:\CRF4\04182006\I208629I.raw

```

162 gcgagtctcc tcattcttgt gattttttacc atttgctttg ctccaagcaa tattattctt 1020
163 attattcacc atgctaacta ctactacaac aacactgatg gcttatattt tatatatctc 1080
164 atagctttgt gcctgggtag tcttaatagt tgcttagatc cattccttta ttttctcatg 1140
165 tcaaaaacca gaaatcactc cactgcttac cttacaaaat agtgaaatga tcttagagaa 1200
166 caaggacagc catcacagag aacg                                     1224

```

168 &lt;210&gt; SEQ ID NO: 5

169 &lt;211&gt; LENGTH: 1102

170 &lt;212&gt; TYPE: DNA

171 &lt;213&gt; ORGANISM: Homo Sapiens

173 &lt;400&gt; SEQUENCE: 5

```

174 acaggcatgg aaaatgatac aaacaacttg gcaaagccaa ccttaccat taagaccttt 60
175 cgtggagctc ccccaaattc ttttgaagag ttcccccttt ctgccttgga aggctggaca 120
176 ggagccacga ttactgtaaa aattaagtgc cctgaagaaa gtgcttcaca tctccatgtg 180
177 aaaaatgcta ccatggggta cctgaccagc tccttaagta ctaaaactgat acctgccatc 240
178 tacctcctgg tgttttagtg tgggtgtccg gccaatgctg tgacctgtg gatgcttttc 300
179 ttcaggacca gatccatctg taccactgta ttctacacca acctggccat tgcagatttt 360
180 cttttttgtg ttacattgcc ctttaagata gcttatcatc tcaatgggaa caactgggta 420
181 tttggagagg tcctgtgccg ggccaccaca gtcattctct atggcaacat gtactgctcc 480
182 attctgctcc ttgctgcat cagcatcaac cgctacctgg ccctcgtcca tcctttcacc 540
183 taccggggcc tgcccaagca cacctatgcc ttggtaacat gtggactggg gtgggcaaca 600
184 gttttcttat atatgctgcc atttttcata ctgaagcagg aatattatct tgttcagcca 660
185 gacatcacca cctgccatga tgttcacaac acttgcgagt cctcatctcc cttccaactc 720
186 tattacttca tctccttggc attctttgga ttcttaattc catttggtgt tatcatctac 780
187 tgctatgcag ccatcatccg gacacttaat gcatacgatc atagatgggt gtggtatggt 840
188 aaggcgagtc tcctcatcct tgtgattttt accatttgtt ttgctccaag caatattatt 900
189 cttattattc accatgctaa ctactactac aacaacactg atggcttata ttttatatat 960
190 ctcatagett tgtgcttggg tagtcttaat agttgcttag atccattcct ttattttctc 1020
191 atgtcaaaaa ccagaaatca ctccactgct taccttacia aatagtgaat tgatcttaga 1080
192 gaacaaggac agccatcaca ga                                     1102

```

194 &lt;210&gt; SEQ ID NO: 6

195 &lt;211&gt; LENGTH: 374

196 &lt;212&gt; TYPE: PRT

197 &lt;213&gt; ORGANISM: Homo Sapiens

199 &lt;400&gt; SEQUENCE: 6

```

200 Met Lys Ala Leu Ile Phe Ala Ala Ala Gly Leu Leu Leu Leu Leu Pro
201 1 5 10 15
202 Thr Phe Cys Gln Ser Gly Met Glu Asn Asp Thr Asn Asn Leu Ala Lys
203 20 25 30
204 Pro Thr Leu Pro Ile Lys Thr Phe Arg Gly Ala Pro Pro Asn Ser Phe
206 35 40 45
207 Glu Glu Phe Pro Phe Ser Ala Leu Glu Gly Trp Thr Gly Ala Thr Ile
208 50 55 60
209 Thr Val Lys Ile Lys Cys Pro Glu Glu Ser Ala Ser His Leu His Val
210 65 70 75 80
211 Lys Asn Ala Thr Met Gly Tyr Leu Thr Ser Ser Leu Ser Thr Lys Leu
212 85 90 95
213 Ile Pro Ala Ile Tyr Leu Leu Val Phe Val Val Gly Val Pro Ala Asn
214 100 105 110
215 Ala Val Thr Leu Trp Met Leu Phe Phe Arg Thr Arg Ser Ile Cys Thr

```

## RAW SEQUENCE LISTING

DATE: 04/18/2006

PATENT APPLICATION: US/09/208,629I

TIME: 15:02:02

Input Set : A:\22000-20603.10 sequence listing.txt

Output Set: N:\CRF4\04182006\I208629I.raw

```

216          115          120          125
217 Thr Val Phe Tyr Thr Asn Leu Ala Ile Ala Asp Phe Leu Phe Cys Val
218          130          135          140
219 Thr Leu Pro Phe Lys Ile Ala Tyr His Leu Asn Gly Asn Asn Trp Val
220 145          150          155          160
221 Phe Gly Glu Val Leu Cys Arg Ala Thr Thr Val Ile Phe Tyr Gly Asn
222          165          170          175
223 Met Tyr Cys Ser Ile Leu Leu Leu Ala Cys Ile Ser Ile Asn Arg Tyr
224          180          185          190
225 Leu Ala Ile Val His Pro Phe Thr Tyr Arg Gly Leu Pro Lys His Thr
226          195          200          205
227 Tyr Ala Leu Val Thr Cys Gly Leu Val Trp Ala Thr Val Phe Leu Tyr
228          210          215          220
229 Met Leu Pro Phe Phe Ile Leu Lys Gln Glu Tyr Tyr Leu Val Gln Pro
230 225          230          235          240
231 Asp Ile Thr Thr Cys His Asp Val His Asn Thr Cys Glu Ser Ser Ser
232          245          250          255
233 Pro Phe Gln Leu Tyr Tyr Phe Ile Ser Leu Ala Phe Phe Gly Phe Leu
234          260          265          270
235 Ile Pro Phe Val Leu Ile Ile Tyr Cys Tyr Ala Ala Ile Ile Arg Thr
236          275          280          285
237 Leu Asn Ala Tyr Asp His Arg Trp Leu Trp Tyr Val Lys Ala Ser Leu
238          290          295          300
239 Leu Ile Leu Val Ile Phe Thr Ile Cys Phe Ala Pro Ser Asn Ile Ile
240 305          310          315          320
241 Leu Ile Ile His His Ala Asn Tyr Tyr Tyr Asn Asn Thr Asp Gly Leu
242          325          330          335
243 Tyr Phe Ile Tyr Leu Ile Ala Leu Cys Leu Gly Ser Leu Asn Ser Cys
244          340          345          350
245 Leu Asp Pro Phe Leu Tyr Phe Leu Met Ser Lys Thr Arg Asn His Ser
246          355          360          365
247 Thr Ala Tyr Leu Thr Lys
248          370
251 <210> SEQ ID NO: 7
252 <211> LENGTH: 425
253 <212> TYPE: PRT
254 <213> ORGANISM: Homo Sapiens
256 <400> SEQUENCE: 7
257 Met Gly Pro Arg Arg Leu Leu Leu Val Ala Ala Cys Phe Ser Leu Cys
258 1          5          10          15
259 Gly Pro Leu Leu Ser Ala Arg Thr Arg Ala Arg Arg Pro Glu Ser Lys
260          20          25          30
261 Ala Thr Asn Ala Thr Leu Asp Pro Arg Ser Phe Leu Leu Arg Asn Pro
262          35          40          45
263 Asn Asp Lys Tyr Glu Pro Phe Trp Glu Asp Glu Glu Lys Asn Glu Ser
264          50          55          60
265 Gly Leu Thr Glu Tyr Arg Leu Val Ser Ile Asn Lys Ser Ser Pro Leu
266 65          70          75          80
267 Gln Lys Gln Leu Pro Ala Phe Ile Ser Glu Asp Ala Ser Gly Tyr Leu

```

RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 04/18/2006  
PATENT APPLICATION:    US/09/208,629I      TIME: 15:02:03

Input Set : A:\22000-20603.10 sequence listing.txt  
Output Set: N:\CRF4\04182006\I208629I.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; N Pos. 117,118,119,120,121,122,123,350,351,442,443,444,595,596,597

Seq#:2; N Pos. 663,785,859,860,861,862,863,864

Seq#:10; N Pos. 3,12,18,21,22,24,27

Seq#:11; N Pos. 6,9,12,15,21,24

Seq#:21; Xaa Pos. 1

Seq#:22; Xaa Pos. 1

**VERIFICATION SUMMARY**

DATE: 04/18/2006

PATENT APPLICATION: US/09/208,629I

TIME: 15:02:03

Input Set : A:\22000-20603.10 sequence listing.txt

Output Set: N:\CRF4\04182006\I208629I.raw

L:65 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:60

M:341 Repeated in SeqNo=2

L:400 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0

L:421 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0

L:547 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0

L:567 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0